

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT Deptno, Job, SUM(Sal) SalSum
2   FROM Emp
3   GROUP BY ROLLUP(Deptno, Job);
```

DEPTNO	JOB	SALSUM
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400
		29025

13 rows selected.

```
SQL> SELECT
2   Deptno,
3   Job,
4   SUM(Sal) Salary
5   FROM Emp
6   GROUP BY CUBE(Deptno, Job)
7   ORDER BY Deptno;
```

DEPTNO	JOB	SALARY
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400
	ANALYST	6000
	CLERK	4150

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```
MANAGER      8275
PRESIDENT    5000
SALESMAN     5600
```

```
DEPTNO JOB      SALARY
-----
29025
```

18 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
  3  NVL(Job, 'All Jobs') Job,
  4  SUM(Sal) Salary
  5  FROM Emp
  6  GROUP BY CUBE(Deptno, Job)
  7  ORDER BY Deptno;
```

DEPTNO	JOB	SALARY
10	PRESIDENT	5000
10	MANAGER	2450
10	All Jobs	8750
10	CLERK	1300
20	MANAGER	2975
20	ANALYST	6000
20	CLERK	1900
20	All Jobs	10875
30	MANAGER	2850
30	SALESMAN	5600
30	CLERK	950
30	All Jobs	9400
All Departments	CLERK	4150
All Departments	All Jobs	29025
All Departments	ANALYST	6000
All Departments	MANAGER	8275
All Departments	SALESMAN	5600

DEPTNO	JOB	SALARY
All Departments	PRESIDENT	5000

18 rows selected.

SQL> cl scr

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```
SQL> COLUMN Deptno FORMAT 99
SQL> SELECT
  2  GROUPING(Deptno) GRPDeptIDX,
  3  Deptno,
  4  SUM(Sal)
  5  FROM Emp
  6  GROUP BY ROLLUP(Deptno);
```

GRPDEPTIDX	DEPTNO	SUM(SAL)
0	10	8750
0	20	10875
0	30	9400
1		29025

```
SQL> cl scr
```

```
SQL> SELECT
  2  GROUPING(Job) GRPJobIDX,
  3  Job,
  4  SUM(Sal)
  5  FROM Emp
  6  GROUP BY ROLLUP(Job);
```

GRPJOBIDX	JOB	SUM(SAL)
0	ANALYST	6000
0	CLERK	4150
0	MANAGER	8275
0	PRESIDENT	5000
0	SALESMAN	5600
1		29025

6 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  GROUPING(Deptno) GRPDeptnoIDX,
4  Job,
5  GROUPING(Job) GRPJobIDX,
6  SUM(Sal)
7  FROM Emp
8* GROUP BY ROLLUP(Deptno, Job)
SQL> /
```

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```
.....
DEPTNO GRPDEPTNOIDX JOB          GRPJOBIDX SUM(SAL)
-----
10      0 CLERK                0          1300
10      0 MANAGER                0          2450
10      0 PRESIDENT                0          5000
10      0                        1          8750
20      0 CLERK                0          1900
20      0 ANALYST                0          6000
20      0 MANAGER                0          2975
20      0                        1         10875
30      0 CLERK                0           950
30      0 MANAGER                0          2850
30      0 SALESMAN               0          5600
30      0                        1          9400
30      1                        1         29025
```

13 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  GROUPING(Deptno) GRPDeptnoIDX,
4  Job,
5  GROUPING(Job) GRPJobIDX,
6  SUM(Sal)
7  FROM Emp
8* GROUP BY CUBE(Deptno, Job)
SQL> /
```

```
DEPTNO GRPDEPTNOIDX JOB          GRPJOBIDX SUM(SAL)
-----
1      1                        1         29025
1      0 CLERK                0          4150
1      0 ANALYST                0          6000
1      0 MANAGER                0          8275
1      0 SALESMAN               0          5600
1      0 PRESIDENT                0          5000
10     0                        1          8750
10     0 CLERK                0          1300
10     0 MANAGER                0          2450
10     0 PRESIDENT                0          5000
20     0                        1         10875
20     0 CLERK                0          1900
20     0 ANALYST                0          6000
20     0 MANAGER                0          2975
30     0                        1          9400
```

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```
.....
      30          0 CLERK          0          950
      30          0 MANAGER        0         2850

DEPTNO GRPDEPTNOIDX JOB          GRPJOBIDX      SUM(SAL)
-----
      30          0 SALESMAN      0         5600
```

18 rows selected.

SQL> cl scr

SQL> SELECT * FROM Dept;

```
DEPTNO DNAME          LOC
-----
      10 ACCOUNTING     NEW YORK
      20 RESEARCH       DALLAS
      30 SALES           CHICAGO
      40 OPERATIONS      BOSTON
```

SQL> SELECT Ename, Job, Deptno

2 FROM Emp1

3

SQL> SELECT Ename, Job, Deptno

2 FROM Emp;

```
ENAME          JOB          DEPTNO
-----
KING            PRESIDENT      10
BLAKE           MANAGER        30
CLARK           MANAGER        10
JONES           MANAGER        20
MARTIN          SALESMAN       30
ALLEN           SALESMAN       30
TURNER          SALESMAN       30
JAMES           CLERK          30
WARD            SALESMAN       30
FORD            ANALYST        20
SMITH           CLERK          20
SCOTT           ANALYST        20
ADAMS           CLERK          20
MILLER          CLERK          10
```

14 rows selected.

SQL> cl scr

SQL> SELECT

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```
2  Ename,
3  Job,
4  Sal,
5  Deptno,
6  DECODE
7  (
8  Deptno,
9  10, 'ACCOUNTING',
10  20, 'RESEARCH',
11  30, 'SALES',
12  40, 'OPERATIONS',
13  'OTHER'
14  ) Departments
15  FROM Emp
16  ORDER BY Departments;
```

ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

```
SQL> SELECT
2  INITCAP(Ename)||' Takes Care of '||
3  DECODE
4  (
5  Job,
6  'ANALYST', 'Analysis',
7  'CLERK', 'Filing',
8  'MANAGER', 'Managing',
9  'PRESIDENT', 'Administration',
10  'SALESMAN', 'Sales'
11  ) Responsibilities
12  FROM Emp;
```

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RESPONSIBILITIES

King Takes Care of Administration
Blake Takes Care of Managing
Clark Takes Care of Managing
Jones Takes Care of Managing
Martin Takes Care of Sales
Allen Takes Care of Sales
Turner Takes Care of Sales
James Takes Care of Filing
Ward Takes Care of Sales
Ford Takes Care of Analysis
Smith Takes Care of Filing
Scott Takes Care of Analysis
Adams Takes Care of Filing
Miller Takes Care of Filing

14 rows selected.

SQL> cl scr

SQL> COL Grades FORMAT A6

SQL> SELECT

```
 2  Ename,
 3  Job,
 4  DECODE
 5  (
 6  Job,
 7  'CLERK', 'E',
 8  'SALESMAN', 'D',
 9  'ANALYST', 'C',
10  'MANAGER', 'B',
11  'PRESIDENT', 'A',
12  'O'
13  ) Grades
14  FROM Emp
15  ORDER BY Job;
```

ENAME	JOB	GRADES
FORD	ANALYST	C
SCOTT	ANALYST	C
SMITH	CLERK	E
MILLER	CLERK	E
JAMES	CLERK	E
ADAMS	CLERK	E
JONES	MANAGER	B
CLARK	MANAGER	B

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```
BLAKE      MANAGER      B
KING       PRESIDENT    A
WARD       SALESMAN     D
ALLEN      SALESMAN     D
MARTIN     SALESMAN     D
TURNER     SALESMAN     D
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  DECODE
  5  (
  6  Job,
  7  'CLERK', 'E',
  8  'SALESMAN', 'D',
  9  'ANALYST', 'C',
 10  'MANAGER', 'B',
 11  'PRESIDENT', 'A',
 12  'O'
 13  ) Grades,
 14  Deptno,
 15  DECODE
 16  (
 17  Deptno,
 18  10, 'ACCOUNTING',
 19  20, 'RESEARCH',
 20  30, 'SALES',
 21  40, 'OPERATIONS',
 22  'OTHER'
 23  ) Departments,
 24  Sal,
 25  Grade
 26  FROM Emp E, Salgrade S
 27  WHERE Sal BETWEEN LoSal AND HiSal
 28  ORDER BY JOB;
```

ENAME	JOB	GRADES	DEPTNO	DEPARTMENT	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1

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```
CLARK      MANAGER      B              10 ACCOUNTING      2450              4
BLAKE      MANAGER      B              30 SALES            2850              4
JONES      MANAGER      B              20 RESEARCH         2975              4
KING       PRESIDENT    A              10 ACCOUNTING      5000              5
ALLEN      SALESMAN     D              30 SALES            1600              3
MARTIN     SALESMAN     D              30 SALES            1250              2
WARD       SALESMAN     D              30 SALES            1250              2
TURNER     SALESMAN     D              30 SALES            1500              3
```

14 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
```

```
SQL> R
```

```
 1  SELECT
 2  Ename,
 3  Job,
 4  DECODE
 5  (
 6  Job,
 7  'CLERK', 'E',
 8  'SALESMAN', 'D',
 9  'ANALYST', 'C',
10  'MANAGER', 'B',
11  'PRESIDENT', 'A',
12  'O'
13  ) Grades,
14  Deptno,
15  DECODE
16  (
17  Deptno,
18  10, 'ACCOUNTING',
19  20, 'RESEARCH',
20  30, 'SALES',
21  40, 'OPERATIONS',
22  'OTHER'
23  ) Departments,
24  Sal,
25  Grade
26  FROM Emp E, Salgrade S
27  WHERE Sal BETWEEN LoSal AND HiSal
28* ORDER BY JOB
```

ENAME	JOB	GRADES	DEPTNO	DEPARTMENT	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1

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```
.....
MILLER      CLERK      E           10 ACCOUNTING      1300           2
SMITH       CLERK      E           20 RESEARCH        800           1
CLARK       MANAGER    B           10 ACCOUNTING      2450           4
BLAKE       MANAGER    B           30 SALES           2850           4
JONES       MANAGER    B           20 RESEARCH        2975           4
KING        PRESIDENT  A           10 ACCOUNTING      5000           5
ALLEN       SALESMAN   D           30 SALES           1600           3
MARTIN      SALESMAN   D           30 SALES           1250           2
WARD        SALESMAN   D           30 SALES           1250           2
TURNER      SALESMAN   D           30 SALES           1500           3
```

14 rows selected.

Execution Plan

Plan hash value: 1546021526

```
-----
| Id  | Operation                | Name      | Rows  | Bytes | Cost (%CPU)|
Time  |
-----
|  0  | SELECT STATEMENT         |           |      1 |    78 |     9  (34) |
00:00:01 |
|  1  | SORT ORDER BY            |           |      1 |    78 |     9  (34) |
00:00:01 |
|  2  | MERGE JOIN               |           |      1 |    78 |     8  (25) |
00:00:01 |
|  3  | SORT JOIN                |           |      5 |   195 |     4  (25) |
00:00:01 |
|  4  | TABLE ACCESS FULL       | SALGRADE  |      5 |   195 |     3   (0) |
00:00:01 |
|*  5  | FILTER                   |           |      |      |             |
|
|*  6  | SORT JOIN                |           |     14 |   546 |     4  (25) |
00:00:01 |
|  7  | TABLE ACCESS FULL       | EMP       |     14 |   546 |     3   (0) |
00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
-----
5 - filter("SAL"<="HISAL")
6 - access("SAL">="LOSAL")
-----
```

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```
filter("SAL">="LOSAL")
```

Note

- dynamic sampling used for this statement

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Job,
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 D.Deptno,
15 Dname,
16 Sal,
17 Grade
18 FROM Emp E, Salgrade S, Dept D
19 WHERE E.Deptno = D.Deptno AND Sal BETWEEN LoSal AND HiSal
20* ORDER BY JOB
SQL> /
```

ENAME	JOB	GRADES	DEPTNO	DNAME	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

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14 rows selected.

Execution Plan

Plan hash value: 3221575351

Id	Operation	Name	Rows	Bytes
Cost (%CPU)	Time			
0	SELECT STATEMENT		1	100
10	(30) 00:00:01			
1	SORT ORDER BY		1	100
10	(30) 00:00:01			
2	NESTED LOOPS		1	100
9	(23) 00:00:01			
3	MERGE JOIN		1	78
8	(25) 00:00:01			
4	SORT JOIN		5	195
4	(25) 00:00:01			
5	TABLE ACCESS FULL	SALGRADE	5	195
3	(0) 00:00:01			
* 6	FILTER			
* 7	SORT JOIN		14	546
4	(25) 00:00:01			
8	TABLE ACCESS FULL	EMP	14	546
3	(0) 00:00:01			
9	TABLE ACCESS BY INDEX ROWID	DEPT	1	22
1	(0) 00:00:01			
* 10	INDEX UNIQUE SCAN	DEPT_PRIMARY_KEY	1	
0	(0) 00:00:01			

Predicate Information (identified by operation id):

```
6 - filter("SAL"<="HISAL")
7 - access("SAL">="LOSAL")
  filter("SAL">="LOSAL")
10 - access("E"."DEPTNO"="D"."DEPTNO")
```

Note

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- dynamic sampling used for this statement

```
SQL> cl scr
```

```
SQL> SET AUTOTRACE OFF EXPLAIN
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Job,
 2  DECODE
 3  (
 4  MGR,
 5  7566,
 6  (
 7  SELECT Ename
 8  FROM Emp
 9  WHERE Empno = 7566
10  ),
11  7698,
12  (
13  SELECT Ename
14  FROM Emp
15  WHERE Empno = 7698
16  ),
17  7782,
18  (
19  SELECT Ename
20  FROM Emp
21  WHERE Empno = 7782
22  ),
23  7788,
24  (
25  SELECT Ename
26  FROM Emp
27  WHERE Empno = 7788
28  ),
29  7839,
30  (
31  SELECT Ename
32  FROM Emp
33  WHERE Empno = 7839
34  ),
35  7902,
36  (
37  SELECT Ename
38  FROM Emp
39  WHERE Empno = 7902
40  ),
41  'Do Not Know') Manager,
```

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```
42  DECODE
43  (
44  Job,
45  'CLERK', 'E',
46  'SALESMAN', 'D',
47  'ANALYST', 'C',
48  'MANAGER', 'B',
49  'PRESIDENT', 'A',
50  'O'
51  ) Grades,
52  Deptno,
53  DECODE
54  (
55  Deptno,
56  10, 'ACCOUNTING',
57  20, 'RESEARCH',
58  30, 'SALES',
59  40, 'OPERATIONS',
60  'OTHER'
61  ) Departments,
62  Sal,
63  Grade
64  FROM EMP E, Salgrade S
65  WHERE Sal BETWEEN LoSal AND HiSal
66  ORDER BY JOB;
```

ENAME	JOB	MANAGER	GRADES	DEPTNO	DEPARTMENT	SAL
GRADE						
SCOTT	ANALYST	JONES	C	20	RESEARCH	3000
4						
FORD	ANALYST	JONES	C	20	RESEARCH	3000
4						
JAMES	CLERK	BLAKE	E	30	SALES	950
1						
ADAMS	CLERK	SCOTT	E	20	RESEARCH	1100
1						
MILLER	CLERK	CLARK	E	10	ACCOUNTING	1300
2						
SMITH	CLERK	FORD	E	20	RESEARCH	800
1						
CLARK	MANAGER	KING	B	10	ACCOUNTING	2450
4						
BLAKE	MANAGER	KING	B	30	SALES	2850
4						
JONES	MANAGER	KING	B	20	RESEARCH	2975
4						

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```
KING      PRESIDENT Do Not Know A      10 ACCOUNTING      5000
5
ALLEN      SALESMAN  BLAKE      D      30 SALES      1600
3
MARTIN     SALESMAN  BLAKE      D      30 SALES      1250
2
WARD       SALESMAN  BLAKE      D      30 SALES      1250
2
TURNER     SALESMAN  BLAKE      D      30 SALES      1500
3
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  COUNT(*) Staff
  4  FROM Emp
  5  GROUP BY ROLLUP(TO_CHAR(HireDate, 'YYYY'));
```

YEAR	STAFF
1980	1
1981	10
1982	2
1983	1
	14

```
SQL> SELECT
  2  SUM
  3  (
  4  DECODE
  5  (
  6    TO_CHAR(HireDate, 'YYYY'),
  7    1980, 1, 0
  8  )
  9  ) "1980" ,
10  SUM
11  (
12  DECODE
13  (
14    TO_CHAR(HireDate, 'YYYY'),
15    1981, 1, 0
16  )
17  ) "1981" ,
18  SUM
19  (
```

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```
20  DECODE
21      (
22      TO_CHAR(HireDate, 'YYYY'),
23      1982, 1, 0
24      )
25  ) "1982" ,
26  SUM
27  (
28  DECODE
29      (
30      TO_CHAR(HireDate, 'YYYY'),
31      1983, 1, 0
32      )
33  ) "1983",
34  COUNT(*) Total
35  FROM Emp;
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

SQL> cl scr

```
SQL> SELECT
2  COUNT
3  (
4  DECODE
5      (
6      TO_CHAR(HireDate, 'YYYY'),
7      1980, 1, 0
8      )
9  ) "1980" ,
10 COUNT
11 (
12 DECODE
13     (
14     TO_CHAR(HireDate, 'YYYY'),
15     1981, 1, 0
16     )
17 ) "1981" ,
18 COUNT
19 (
20 DECODE
21     (
22     TO_CHAR(HireDate, 'YYYY'),
23     1982, 1, 0
24     )
25 ) "1982" ,
```

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```
26  COUNT
27  (
28  DECODE
29      (
30      TO_CHAR(HireDate, 'YYYY'),
31      1983, 1, 0
32      )
33  ) "1983",
34  COUNT(*) Total
35  FROM Emp;
```

1980	1981	1982	1983	TOTAL
14	14	14	14	14

```
SQL> SELECT
2  COUNT
3  (
4  DECODE
5      (
6      TO_CHAR(HireDate, 'YYYY'),
7      1980, 1, NULL
8      )
9  ) "1980" ,
10 COUNT
11 (
12 DECODE
13     (
14     TO_CHAR(HireDate, 'YYYY'),
15     1981, 1, NULL
16     )
17 ) "1981" ,
18 COUNT
19 (
20 DECODE
21     (
22     TO_CHAR(HireDate, 'YYYY'),
23     1982, 1, NULL
24     )
25 ) "1982" ,
26 COUNT
27 (
28 DECODE
29     (
30     TO_CHAR(HireDate, 'YYYY'),
31     1983, 1, NULL
32     )
33 ) "1983",
```

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```
34 COUNT(*) Total
35 FROM Emp;
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

```
SQL> cl scr
```

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  DECODE
  6  (
  7  Job,
  8  'ANALYST', Sal * 1.1,
  9  'CLERK', Sal * 1.15,
 10  'MANAGER', Sal * 1.2,
 11  Sal
 12  ) REVSAL
 13 FROM Emp;
```

ENAME	JOB	SAL	REVSAL
KING	PRESIDENT	5000	5000
BLAKE	MANAGER	2850	3420
CLARK	MANAGER	2450	2940
JONES	MANAGER	2975	3570
MARTIN	SALESMAN	1250	1250
ALLEN	SALESMAN	1600	1600
TURNER	SALESMAN	1500	1500
JAMES	CLERK	950	1092.5
WARD	SALESMAN	1250	1250
FORD	ANALYST	3000	3300
SMITH	CLERK	800	920
SCOTT	ANALYST	3000	3300
ADAMS	CLERK	1100	1265
MILLER	CLERK	1300	1495

```
14 rows selected.
```

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  DECODE
  6  (
```

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```
7 Job,
8 'ANALYST', Sal * 1.1,
9 'CLERK', Sal * 1.15,
10 'MANAGER', Sal * 1.2,
11 Sal
12 ) REVSAL,
13 DECODE
14 (
15 Job,
16 'ANALYST', 'Revised',
17 'CLERK', 'Revised',
18 'MANAGER', 'Revised',
19 'Sorry!'
20 ) Status
21 FROM Emp;
```

ENAME	JOB	SAL	REVSAL	STATUS
KING	PRESIDENT	5000	5000	Sorry!
BLAKE	MANAGER	2850	3420	Revised
CLARK	MANAGER	2450	2940	Revised
JONES	MANAGER	2975	3570	Revised
MARTIN	SALESMAN	1250	1250	Sorry!
ALLEN	SALESMAN	1600	1600	Sorry!
TURNER	SALESMAN	1500	1500	Sorry!
JAMES	CLERK	950	1092.5	Revised
WARD	SALESMAN	1250	1250	Sorry!
FORD	ANALYST	3000	3300	Revised
SMITH	CLERK	800	920	Revised
SCOTT	ANALYST	3000	3300	Revised
ADAMS	CLERK	1100	1265	Revised
MILLER	CLERK	1300	1495	Revised

14 rows selected.

```
SQL> SELECT
2 Ename,
3 Job,
4 Sal,
5 DECODE
6 (
7 Job,
8 'ANALYST', (Sal * 1.1)||' Revised.',
9 'CLERK', (Sal * 1.15)||' Revised.',
10 'MANAGER', (Sal * 1.2)||' Revised.',
11 Sal||' Sorry!'
12 ) REVSALST
13 FROM Emp
```

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```
14
SQL> COL REVSALST FORMAT A20
SQL> R
1  SELECT
2  Ename,
3  Job,
4  Sal,
5  DECODE
6  (
7  Job,
8  'ANALYST', (Sal * 1.1)||' Revised.',
9  'CLERK', (Sal * 1.15)||' Revised.',
10 'MANAGER', (Sal * 1.2)||' Revised.',
11 Sal||' Sorry!'
12 ) REVSALST
13* FROM Emp
```

ENAME	JOB	SAL	REVSALST
KING	PRESIDENT	5000	5000 Sorry!
BLAKE	MANAGER	2850	3420 Revised.
CLARK	MANAGER	2450	2940 Revised.
JONES	MANAGER	2975	3570 Revised.
MARTIN	SALESMAN	1250	1250 Sorry!
ALLEN	SALESMAN	1600	1600 Sorry!
TURNER	SALESMAN	1500	1500 Sorry!
JAMES	CLERK	950	1092.5 Revised.
WARD	SALESMAN	1250	1250 Sorry!
FORD	ANALYST	3000	3300 Revised.
SMITH	CLERK	800	920 Revised.
SCOTT	ANALYST	3000	3300 Revised.
ADAMS	CLERK	1100	1265 Revised.
MILLER	CLERK	1300	1495 Revised.

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2  Ename,
3  Job,
4  Sal,
5  DECODE
6  (
7  Job,
8  'ANALYST', Sal * 1.1,
9  'CLERK', Sal * 1.15,
10 'MANAGER', Sal * 1.2,
```

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```
11 Sal
12 ) REVSAL,
13 DECODE
14 (
15 Job,
16 'ANALYST', Sal * 1.1,
17 'CLERK', Sal * 1.15,
18 'MANAGER', Sal * 1.2,
19 Sal
20 ) - Sal "Extra Amount",
21 DECODE
22 (
23 Job, 'ANALYST', 'Revised',
24 'CLERK', 'Revised',
25 'MANAGER', 'Revised',
26 'Sorry!'
27 ) "Status"
28 FROM Emp;
```

ENAME	JOB	SAL	REVSAL	Extra Amount	Status
KING	PRESIDENT	5000	5000	0	Sorry!
BLAKE	MANAGER	2850	3420	570	Revised
CLARK	MANAGER	2450	2940	490	Revised
JONES	MANAGER	2975	3570	595	Revised
MARTIN	SALESMAN	1250	1250	0	Sorry!
ALLEN	SALESMAN	1600	1600	0	Sorry!
TURNER	SALESMAN	1500	1500	0	Sorry!
JAMES	CLERK	950	1092.5	142.5	Revised
WARD	SALESMAN	1250	1250	0	Sorry!
FORD	ANALYST	3000	3300	300	Revised
SMITH	CLERK	800	920	120	Revised
SCOTT	ANALYST	3000	3300	300	Revised
ADAMS	CLERK	1100	1265	165	Revised
MILLER	CLERK	1300	1495	195	Revised

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2 COUNT
3 (
4 DECODE
5 (
6 Deptno,
7 10, '*', NULL
8 )
```

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```
9    ) D10_COUNT,
10   SUM
11   (
12   DECODE
13   (
14   Deptno,
15   10, Sal, NULL
16   )
17   ) D10_Sal,
18   COUNT
19   (
20   DECODE
21   (
22   Deptno,
23   20, '*', NULL
24   )
25   ) D20_COUNT,
26   SUM
27   (
28   DECODE
29   (
30   Deptno,
31   20, Sal, NULL
32   )
33   ) D20_Sal,
34   COUNT
35   (
36   DECODE
37   (
38   Deptno,
39   30, '*', NULL
40   )
41   ) D30_COUNT,
42   SUM
43   (
44   DECODE
45   (
46   Deptno,
47   30, Sal, NULL
48   )
49   ) D30_Sal
50   FROM Emp;
```

D10_COUNT	D10_SAL	D20_COUNT	D20_SAL	D30_COUNT	D30_SAL
3	8750	5	10875	6	9400

```
SQL> SELECT Deptno, COUNT(*) Staff, SUM(Sal) SalSum
```

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```
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	STAFF	SALSUM
30	6	9400
20	5	10875
10	3	8750

```
SQL> cl scr
```

```
SQL> COLUMN D10_COUNT FORMAT 99
SQL> COLUMN D10_SAL FORMAT 99999
SQL> COLUMN D20_COUNT FORMAT 99
SQL> COLUMN D20_SAL FORMAT 99999
SQL> COLUMN D30_COUNT FORMAT 99
SQL> COLUMN D30_SAL FORMAT 99999
SQL> COLUMN EMPCOUNT FORMAT 99
SQL> COLUMN SALSUM FORMAT 99999
SQL> SELECT
  2 COUNT
  3 (
  4   DECODE
  5     (
  6       Deptno,
  7       10, '*', NULL
  8     )
  9   ) D10_COUNT,
10 SUM
11 (
12   DECODE
13     (
14       Deptno,
15       10, Sal, NULL
16     )
17   ) D10_Sal,
18 COUNT
19 (
20   DECODE
21     (
22       Deptno,
23       20, '*', NULL
24     )
25   ) D20_COUNT,
26 SUM
27 (
28   DECODE
29     (
```

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```
30      Deptno,
31      20, Sal, NULL
32    )
33  ) D20_Sal,
34  COUNT
35  (
36    DECODE
37    (
38      Deptno,
39      30, '*', NULL
40    )
41  ) D30_COUNT,
42  SUM
43  (
44    DECODE
45    (
46      Deptno,
47      30, Sal, NULL
48    )
49  ) D30_Sal,
50  COUNT(*) EmpCount,
51  SUM(Sal) SalSum
52  FROM Emp;
```

D10_COUNT	D10_SAL	D20_COUNT	D20_SAL	D30_COUNT	D30_SAL	EMPCOUNT	SALSUM
3	8750	5	10875	6	9400	14	29025

SQL> cl scr

```
SQL> SELECT
  2  Job,
  3  SUM
  4  (
  5    DECODE
  6    (
  7      Deptno,
  8      10, Sal
  9    )
 10  ) "Deptno 10",
 11  SUM
 12  (
 13    DECODE
 14    (
 15      Deptno,
 16      20, Sal
 17    )
 18  ) "Deptno 20",
```

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```
19 SUM
20 (
21   DECODE
22     (
23       Deptno,
24       30, Sal
25     )
26   ) "Deptno 30",
27 SUM(Sal) "Total"
28 FROM Emp
29 GROUP BY Job;
```

JOB	Deptno 10	Deptno 20	Deptno 30	Total
SALESMAN			5600	5600
CLERK	1300	1900	950	4150
PRESIDENT	5000			5000
MANAGER	2450	2975	2850	8275
ANALYST		6000		6000

```
SQL> COL "Total" FORMAT 99999
```

```
SQL> R
```

```
1  SELECT
2  Job,
3  SUM
4  (
5    DECODE
6      (
7        Deptno,
8        10, Sal
9      )
10 ) "Deptno 10",
11 SUM
12 (
13   DECODE
14     (
15       Deptno,
16       20, Sal
17     )
18 ) "Deptno 20",
19 SUM
20 (
21   DECODE
22     (
23       Deptno,
24       30, Sal
25     )
26 ) "Deptno 30",
```

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```
27 SUM(Sal) "Total"
28 FROM Emp
29* GROUP BY Job
```

JOB	Deptno 10	Deptno 20	Deptno 30	Total
SALESMAN			5600	5600
CLERK	1300	1900	950	4150
PRESIDENT	5000			5000
MANAGER	2450	2975	2850	8275
ANALYST		6000		6000

```
SQL> SELECT Deptno, Job, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno, ROLLUP(Job);
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400

12 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, Job, SUM(Sal)
2 FROM Emp
3* GROUP BY Job, ROLLUP(Deptno)
SQL> /
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
20	CLERK	1900
30	CLERK	950
	CLERK	4150
20	ANALYST	6000

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```
        ANALYST          6000
10  MANAGER              2450
20  MANAGER              2975
30  MANAGER              2850
    MANAGER              8275
30  SALESMAN             5600
    SALESMAN             5600
10  PRESIDENT            5000
    PRESIDENT            5000
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Job,
  3  SUM
  4  (
  5    DECODE
  6      (
  7        Deptno,
  8        10, Sal
  9      )
10  ) "Deptno 10",
11  SUM
12  (
13    DECODE
14      (
15        Deptno,
16        20, Sal
17      )
18  ) "Deptno 20",
19  SUM
20  (
21    DECODE
22      (
23        Deptno,
24        30, Sal
25      )
26  ) "Deptno 30",
27  SUM(Sal) "Total"
28  FROM Emp
29  GROUP BY ROLLUP (Job);
```

JOB	Deptno 10	Deptno 20	Deptno 30	Total
ANALYST		6000		6000
CLERK	1300	1900	950	4150

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MANAGER	2450	2975	2850	8275
PRESIDENT	5000			5000
SALESMAN			5600	5600
	8750	10875	9400	29025

6 rows selected.

```
SQL> SELECT
  2  Deptno,
  3  SUM
  4  (
  5    DECODE
  6      (
  7        Job,
  8        'PRESIDENT', Sal
  9      )
 10  ) "President",
 11  SUM
 12  (
 13    DECODE
 14      (
 15        Job,
 16        'ANALYST', Sal
 17      )
 18  ) "Analyst",
 19  SUM
 20  (
 21    DECODE
 22      (
 23        Job,
 24        'MANAGER', Sal
 25      )
 26  ) "Manager",
 27  SUM
 28  (
 29    DECODE
 30      (
 31        Job,
 32        'CLERK', Sal
 33      )
 34  ) "Clerk",
 35  SUM
 36  (
 37    DECODE
 38      (
 39        Job,
 40        'SALESMAN', Sal
 41      )
```

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```
42 ) "Salesman",
43 SUM(Sal) "Total"
44 FROM Emp
45 GROUP BY Deptno;
```

DEPTNO	President	Analyst	Manager	Clerk	Salesman	Total
30			2850	950	5600	9400
20		6000	2975	1900		10875
10	5000		2450	1300		8750

```
SQL> COLUMN President FORMAT A9
SQL> COLUMN Analyst FORMAT A9
SQL> COLUMN Manager FORMAT A9
SQL> COLUMN Clerk FORMAT A9
SQL> COLUMN Salesman FORMAT A9
SQL> SELECT
  2 Deptno,
  3 NVL
  4 (
  5 TO_CHAR
  6 (
  7 SUM
  8 (
  9 DECODE
10 (
11 Job,
12 'PRESIDENT', Sal
13 )
14 )
15 ), 'N.A'
16 ) "President",
17 NVL
18 (
19 TO_CHAR
20 (
21 SUM
22 (
23 DECODE
24 (
25 Job,
26 'ANALYST', Sal
27 )
28 )
29 ), 'N.A'
30 ) "Analyst",
31 NVL
32 (
```

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```
33  TO_CHAR
34      (
35          SUM
36          (
37              DECODE
38              (
39                  Job,
40                  'MANAGER', Sal
41              )
42          )
43      ), 'N.A'
44  ) "Manager",
45  NVL
46  (
47      TO_CHAR
48      (
49          SUM
50          (
51              DECODE
52              (
53                  Job,
54                  'CLERK', Sal
55              )
56          )
57      ), 'N.A'
58  ) "Clerk",
59  NVL
60  (
61      TO_CHAR
62      (
63          SUM
64          (
65              DECODE
66              (
67                  Job,
68                  'SALESMAN', Sal
69              )
70          )
71      ), 'N.A'
72  ) "Salesman",
73  SUM(Sal) "Total"
74  FROM Emp
75  GROUP BY Deptno;
```

DEPTNO	President	Analyst	Manager	Clerk	Salesman	Total
30	N.A	N.A	2850	950	5600	9400
20	N.A	6000	2975	1900	N.A	10875

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10 5000 N.A 2450 1300 N.A 8750

SQL> cl scr

SQL> SET PAGESIZE 200

SQL> BREAK ON Month SKIP 1

SQL> COLUMN Month FORMAT A18

SQL> COLUMN Sun FORMAT A5

SQL> COLUMN Mon FORMAT A5

SQL> COLUMN Tue FORMAT A5

SQL> COLUMN Wed FORMAT A5

SQL> COLUMN Thu FORMAT A5

SQL> COLUMN Fri FORMAT A5

SQL> COLUMN Sat FORMAT A5

SQL> SELECT

```
2  LPAD(Month, 20 - (20 - LENGTH(Month)) / 2 ) Month,
3  "Sun",
4  "Mon",
5  "Tue",
6  "Wed",
7  "Thu",
8  "Fri",
9  "Sat"
10 FROM
11 (
12  SELECT
13    TO_CHAR(DT, 'FMMonth YYYY') Month,
14    TO_CHAR(DT + 1, 'IW') Week,
15    MAX(DECODE(TO_CHAR(DT, 'D'), '1', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
16    "Sun",
17    MAX(DECODE(TO_CHAR(DT, 'D'), '2', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
18    "Mon",
19    MAX(DECODE(TO_CHAR(DT, 'D'), '3', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
20    "Tue",
21    MAX(DECODE(TO_CHAR(DT, 'D'), '4', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
22    "Wed",
23    MAX(DECODE(TO_CHAR(DT, 'D'), '5', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
24    "Thu",
25    MAX(DECODE(TO_CHAR(DT, 'D'), '6', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
26    "Fri",
27    MAX(DECODE(TO_CHAR(DT, 'D'), '7', LPAD(TO_CHAR(DT, 'FMDD'), 2)))
28    "Sat"
29  FROM
30    (
31      SELECT TRUNC(SYSDATE, 'Y') - 1 + ROWNUM DT
32      FROM ALL_OBJECTS
33      WHERE
```

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```

27          ROWNUM <= ADD_MONTHS(TRUNC(SYSDATE, 'Year'), 12) -
TRUNC(SYSDATE, 'Year')
28      )
29      GROUP BY TO_CHAR(DT, 'FMMonth YYYY'), TO_CHAR(DT + 1, 'IW')
30      )
31      ORDER BY TO_DATE(MONTH, 'Month YYYY' ), TO_NUMBER(Week)
32      /

```

MONTH	Sun	Mon	Tue	Wed	Thu	Fri	Sat
January 2014				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
February 2014							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	
March 2014							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
April 2014			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30			
May 2014					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
June 2014	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					
July 2014			1	2	3	4	5

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	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
August 2014						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
September 2014		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
October 2014				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
November 2014							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
December 2014	28	29	30	31			
		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27

63 rows selected.

SQL> SPOOL OFF

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